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EDUCATION

Ph. D. in Economics, Harvard University, 1965.

B. A. in Economics, University of California, Santa Barbara, 1961.

PERMANENT POSITIONS HELD

Professor of the Graduate Division, University of California, Riverside, 2010–

Distinguished Professor Emeritus, University of California, Riverside, 2010–

Distinguished Professor of Economics, University of California, Riverside, 1999–2010.

Professor of Economics, University of California, Riverside, 1986–1999.

Professor of Economics, New York University, 1981–1986.

Professor of Economics, University of California, San Diego, 1974–1981.

Associate Professor of Economics, University of California, San Diego, 1973–1974.

Associate Professor of Economics, University of California, Santa Barbara, 1966–1973.

Assistant Professor of Economics, University of California, Santa Barbara, 1964–1966.

TEMPORARY POSITIONS HELD

Affiliated Professor, Economic Theory Research Group, Centre for Applied Economic Research, University of New South Wales, 2004–2012. .

Visiting Professor, Department of Economics, University of New South Wales, Spring 2004.

Visiting Professor, Department of Economics, Sydney University, Spring 1997, Spring 2000, and March 2008.

Visiting Professor, Department of Economics, Stanford University, Fall 1993.

Accueil Visiteur, Groupe de Recherche en Economie Quantitative (G.R.E.Q.E), Universités d'Aix-Marseille II et III, Summer, 1993.

Director, C.V. Starr Center for Applied Economics, New York University, 1981–84.

Guest Scholar, Brookings Institution, Spring 1981.

Director, Council on Wage and Price Stability, 1979–1981

Deputy Director, Council on Wage and Price Stability, 1978–1979.

Member, Professional Staff of the Council of Economic Advisors, 1965–1966.

HONORS AND DISTINCTIONS

- Professorial Visiting Fellow, School of Economics, University of New South Wales, 2005–2008, 2008–2011, and 2011–2014.
- Keynote Speaker, Asian Pacific Productivity Conference, King Mongkut’s Institute of Technology Ladrabang, Bangkok, Thailand, July 2012.
- Doctoral Dissertation Adviser / Mentoring Award, University of California, Riverside, 2009–2010 (recognizes one or two faculty each year “who have made outstanding contributions to the training of advanced graduate students at UCR”).
- Keynote Speaker, Eleventh European Workshop on Efficiency and Productivity, Università di Pisa, June 2009.
- Faculty Research Lecturer, University of California, Riverside, 2006–07 (awarded to one UCR faculty member each year for “a distinguished record in research”).
- Keynote Speaker, Eighth European Workshop on Efficiency and Productivity, Universidad Oviedo (Spain), 2003.
- Keynote Speaker, Seventh European Workshop on Efficiency and Productivity, Universidad Oviedo (Spain), 2001.
- Fellow, American Association for the Advancement of Science, elected 1998.
- Visiting Distinguished Scholar, University of Sydney, 1997.
- Holder of President’s Chair, University of California, 1986–88.
- E.S. Woodward Lecturer, University of British Columbia, 1982.
- Presidential appointment with Senate confirmation (Director, Council on Wage and Price Stability), 1979.
- National Science Foundation Fellow, 1963–64 (Ford Foundation Fellowship turned down to accept NSF Fellowship).
- Woodrow Wilson Fellow, 1961–1962.

PUBLICATIONS

- “Technological Inefficiency Indexes: A Binary Taxonomy and a Generic Theorem” (with William Schworm), *Journal of Productivity Analysis*, forthcoming, 2017.
- “Theoretical Productivity Indices,” in *The Oxford Handbook of Productivity Analysis* (C. A. Knox Lovell, Emili Grifell-Tatje, and Robin C. Sickles, eds.), Oxford University Press, forthcoming, 2017.

- “Modeling Emission-Generating Technologies: Reconciliation of Axiomatic and By-Production Approaches” (with Sushama Murty), *Empirical Economics*, Online (2016): doi:10.1007/s00181-016-1183-4.
- “Polarization of the Worldwide Distribution of Productivity” (with Oleg Badunenko and Daniel J. Henderson), *Journal of Productivity Analysis*, **40** (2013): 153–171.
- “On Modeling Pollution-Generating Technologies” (with Sushama Murty and Steven B. Levkoff), *Journal of Environmental Economics and Management*, **64** (2012): 117–135.
- “Boundary Problems with the ‘Russell’ Graph Measure of Technical Efficiency: A Refinement” (with Steven B Levkoff and William Schworm), *Journal of Productivity Analysis*, **37** (2012): 239–248.
- “Properties of Inefficiency Indexes on \langle Input, Output \rangle Space” (with William Schworm), *Journal of Productivity Analysis*, **36** (2011), 143–156.
- “Notes on Houthakker’s Paper on ‘Stationarity of Consumer Preferences’,” Appendix to Chapter 20 of *Consumer Demand in the United States: Prices, Income, and Consumption Behavior* (Third Edition), by Lester D. Taylor and H. S. Houthakker, Springer, 2010.
- “Axiomatic Foundations of Efficiency Measurement on Data-Generated Technologies” (with William Schworm), *Journal of Productivity Analysis* **31** (2009), 77–86.
- “Modes, Weighted Modes, and Calibrated Modes: Evidence of Clustering Using Modality Tests” (with Daniel J. Henderson and Christopher F. Parmeter), *Journal of Applied Econometrics*, **23** (2008), 607–638.
- “Separability” (with Charles Blackorby and Daniel Primont), in *New Palgrave Dictionary of Economics* (Second Edition), (Lawrence Blume and Steven Durlauf, eds.), Palgrave Macmillan, 2008.
- “W. M. Gorman” (with Charles Blackorby and Daniel Primont), in *New Palgrave Dictionary of Economics* (Second Edition) (Lawrence Blume and Steven Durlauf, eds.), Palgrave Macmillan, 2008.
- “Morishima Gross Elasticity of Substitution” (with Charles Blackorby and Daniel Primont), *Journal of Productivity Analysis* **28** (2007), 203–208.

- “Human Capital and Convergence: A Production-Frontier Approach” (with Daniel J. Henderson), *International Economic Review* **46** (2005), 1167–1205.
- “Externality Policy Reform: A General-Equilibrium Analysis” (with Sushama Murty), *Journal of Public Economic Theory* **7** (2005), 117–151.
- “On Measuring Changes in Welfare When Changes in Consumption Bundles Are Small” (with Indranil Dutta and Prasanta Pattanaik), *Economics Bulletin* **4** (2003), 1–9.
- “Technological Change, Technological Catch-Up, and Capital Deepening: Relative Contributions to Growth and Convergence” (with Subodh Kumar), *American Economic Review* **92** (2002), 527–548.
- “Aggregation of Efficiency Indexes” (with Charles Blackorby), *Journal of Productivity Analysis* **12** (1999), 5–20.
- Review of *Economic Analysis of Production Price Indexes*, by Franklin M. Fisher and Karl Shell, *Journal of Economic Literature* **37** (1999), 671–72.
- “Separability” (with Charles Blackorby and Daniel Primont), in *Handbook of Utility Theory* (Salvador Barbera, Peter J. Hammond, and Christian Seidl, eds.), Kluwer Academic Publishers, 1998.
- “Aggregation and Econometric Analysis of Supply and Demand” (with Robert Breunig and Chia-Hui Chiu), in *Handbook of Applied Economic Statistics* (David Giles and Aman Ullah, eds.), Marcel Dekker, 1998, 177–235.
- “Distance Functions in Consumer and Producer Theory,” Essay 1 in *Index Number Theory: Essays in Honor of Sten Malmquist*, Kluwer Academic Publishers, 1997, 7–90 .
- Index Number Theory: Essays in Honor of Sten Malmquist* (edited with Rolf Färe and Shawna Grosskopf; Introduction written by the editors), Kluwer Academic Publishers, 1997.
- “Two-Stage Budgeting: An Extension of Gorman’s Theorem,” (with Charles Blackorby) *Economic Theory* **9** (1997), 185–193.
- Review of *Production Frontiers*, by Rolf Färe, Shawna Grosskopf, and C. A. Knox Lovell, *Journal of Economic Literature* **33** (1995), 1334–1336.

- “Duality and Continuity” (with Steven Hackman), *Journal of Productivity Analysis* **6** (1995), 99–116.
- “Proportional Budgeting and Decentralization” (with Charles Blackorby), *Econometrica* **63** (1995), 431–439.
- “Social Welfare and Public Budgeting” (with Charles Blackorby), in *Measurement and Modeling of Social Welfare and Inequality* (Wolfgang Eichhorn, ed.), Springer-Verlag, 1994, 516–536.
- “The Conjunction of Direct and Indirect Separability” (with Charles Blackorby), *Journal of Economic Theory* **62** (1994), 480–498.
- “Samuelson’s Shibboleth Revisited: Proportional Budgeting Among Agents and Rank-Two Demand Systems” (with Charles Blackorby), in *Mathematical Modelling in Economics* (Erwin Diewert, Klaus Spremann, and Frank Stehling, eds.), Springer-Verlag, 1993, 480–498.
- “Remarks on the Power of Non-Parametric Tests of Consumer-Theory Hypotheses,” in *Consumption, Trade, and Aggregation: Essays in Honor of H. S. Houthakker* (Louis Philips and Lester D. Taylor, eds.), 1992, 121–136.
- “Elasticity of Substitution in a Regulated Firm” (with Charles Blackorby), *Economics Letters* **32** (1990), 111–114.
- “Comments” (on “Individual and Social Cost-of-Living Indexes,” by Dale W. Jorgenson and David T. Slesnick), in *Price Level Measurement* (W. Erwin Diewert, ed.), North-Holland, 1990, 324–336.
- “Comments” (on “The Theory of the Cost-of-Living Index and the Measurement of Welfare Change,” by W. Erwin Diewert), in *Price Level Measurement* (W. Erwin Diewert, ed.), North-Holland, 1990, 149–154.
- “Continuity of Measures of Technical Efficiency,” *Journal of Economic Theory* **51** (1990), 255–267.
- “Will the Real Elasticity of Substitution Please Stand Up? A Comparison of the Allen/Uzawa and Morishima Elasticities” (with Charles Blackorby), *American Economic Review* **79** (1989), 882–888.

- “On the Axiomatic Approach to the Measurement of Technical Efficiency,” in *Measurement in Economics: Theory and Application of Economic Indices* (Wolfgang Eichhorn, ed.), Physica-Verlag, 1988, 207–220.
- “Comment” (on “The Distribution of Wealth in a Two-Class Model of Economic Growth,” by Edward Wolff), in *Modeling the Accumulation and Distribution of Wealth* (Denis Kessler and André Masson, eds.), Oxford University Press, 1988, 281–285.
- “Tax-Based Incomes Policies: Some Skeptical Remarks,” in *Incentives Based Incomes Policies: Advances in TIP and MAP*, David C. Collander, ed.), Ballinger, 1986, 159–175.
- “A Note on Decomposable Inequality Measures,” *Review of Economic Studies* **52** (1985), 347–352.
- “Testing for the Effectiveness of Wage/Price Controls: An Application to the Carter Program” (with John Hagens), *American Economic Review* **75** (1985), 191–207.
- “Measures of Technical Efficiency,” *Journal of Economic Theory* **35** (1985), 109–126.
- “Can Incomes Policies Work?” in *The Political Process and Economic Change* (Kristen R. Monroe, ed.), Agathon Press, 1983, 108–140.
- “Measuring Labor Compensation in Controls Programs” (with Stuart McMenemy), in *The Measurement of Labor Cost* (Jack R. Triplett, ed.), University of Chicago Press, 1983, 423–448.
- “The Morishima Elasticity of Substitution: Symmetry, Constancy, Separability, and Relationship to the Hicks and Allen Elasticities” (with Charles Blackorby), *Review of Economic Studies* **43** (1981), 147–158.
- Microeconomics: A Synthesis of Modern and Neoclassical Theory* (with Maurice Wilkin-son), Wiley, 1979.
- “An Extension and Alternative Proof of Gorman’s Price Aggregation Theorem” (with Charles Blackorby and Daniel Primont, in *Theory and Applications of Economic Indices* (Wolfgang Eichhorn, ed.), Springer-Verlag, 1978, 109–141.
- “Estimation of Demand Systems Generated by the Gorman Polar Form” (with Charles Blackorby and Richard Boyce), *Econometrica* **46** (1978), 345–363.

- “Indices and Subindices of the Cost of Living and the Standard of Living” (with Charles Blackorby), *International Economic Review* **19** (1978), 229–240.
- Duality, Separability, and Functional Structure: Theory and Economic Applications* (with Charles Blackorby and Daniel Primont), North-Holland, 1978.
- “Separability vs. Functional Structure: A Characterization of Their Differences” (with Charles Blackorby and Daniel Primont), *Journal of Economic Theory* **15** (1977), 135–144.
- “On Testing Separability Restrictions with Flexible Functional Forms” (with Charles Blackorby and Daniel Primont), *Journal of Econometrics* **5** (1977), 195–209.
- “Dual Price and Quantity Aggregation” (with Charles Blackorby and Daniel Primont), *Journal of Economic Theory* **14** (1977), 130–148. Translated into Italian in a special volume on Index Number Theory and Practice, *Rassegna della Letteratura sui Cicli Economici* (Luigi Biggeri, ed.), **28** (1986), 139–154.
- “Functional Structure and Partial Elasticities of Substitution: An Application of Duality Theory” (with Charles Blackorby), *Review of Economic Studies* **43** (1976), 285–293.
- “Budgeting, Decentralization, and Aggregation” (with Charles Blackorby and Daniel Primont), *Annals of Economic and Social Measurement* **4** (1975), 23–44.
- “Functional Structure and Partial Elasticities of Substitution,” *Review of Economic Studies* **42** (1975), 79–86.
- “Some Simple Remarks on Duality and the Structure of Utility Functions” (with Charles Blackorby and Daniel Primont), *Journal of Economic Theory* **11** (1975), 155–160.
- “A Tax Revenue Forecasting Model for the State of Hawaii” (with John Hambor and Morris Norman), *Public Finance Quarterly* **2** (1974), 432–450.
- “Recursively Decentralized Decision Making” (with Charles Blackorby, David Nissen, and Daniel Primont), *Econometrica* **42** (1974), 487–496.
- “Consistent Intertemporal Decision Making” (with Charles Blackorby, David Nissen, and Daniel Primont), *Review of Economic Studies* **40** (1973), 239–248.

- “Optimum Population and Growth: Comment,” *Journal of Economic Theory* **5** (1972), 278–279.
- “A Note on Uzawa’s Barter Process” (with Richard W. Ruppert), *International Economic Review* **13** (1972), 423–425.
- “A Personal Income Tax Simulation Model” (with Morris Norman), *National Tax Journal* **23** (1970), 429–434.
- “Participation Functions and Potential Labor Force” (with Stanley Black), *Industrial and Labor Relations Review* **24** (1970), 84–94.
- “Homothetic Separability and Consumer Budgeting” (with Charles Blackorby, George Lady, and David Nissen), *Econometrica* **38** (1970), 468–472. Reprinted in *Consumer Theory* (Kelvin Lancaster, Ed.), Edward Elgar Publishers, 1998, 468–472.
- “An Alternative Estimate of Potential GNP” (with Stanley Black), *Review of Economics and Statistics* **51** (1969), 70–76.
- “International Disparities in Income Elasticities,” *Review of Economics and Statistics* **49** (1967), 579–582.
- “A Graphical Proof of the Impossibility of a Positively Inclined Demand Curve for a Factor of Production,” *American Economic Review* **54** (1964), 726–732.

OTHER COMPLETED RESEARCH

- Turmoil and Competition in the Gasoline Marketing Industry* (with William D. Nordhaus and Frederick D. Sturdivant), printed and distributed by the Management Analysis Center, Boston, 1983.
- Can Chronic Inflation Be Cured?* (E. S. Woodward Lectures), printed and distributed by the University of British Columbia, 1982.
- Evaluation of the Pay and Price Standards Program* (with Sally Katzen and others), printed and distributed by the Council on Wage and Price Stability, Washington, D. C., 1981.
- Forecasting the Industrial Demand for Energy* (with Morris Norman), printed and distributed by the Electric Power Research Institute, Palo Alto, 1976.

A Multilateral International Linkage Model (with J. Stuart McMenamin and Jean-Paul Pinard), report prepared for the Central Intelligence Agency, 1976.

The Measurement and Long-Range Projection of Average Covered Real Wages, report prepared for the Social Security Administration, 1977.

“The Economic Burden of Defense,” in *The Burden of Defense in the United States and the USSR* (Mark A. Earle, ed.), printed and distributed by the Stanford Research Institute, 1973.

Projecting Labor Productivity by Industry: An Econometric Analysis (with Morris Norman and Maurice Wilkinson), report prepared for the U. S. Department of Labor, 1971.

A Tax Forecasting and Simulation Model for the State of Hawaii (with Morris Norman and others), printed and distributed by the State of Hawaii, Honolulu, 1969.

OTHER PROFESSIONAL ACTIVITY

Participant (paper presenter, chairman, and discussant) at about 100 conferences on economic research, including World Congresses and regional meetings of the Econometric Society, annual meetings of the American Economic Association and other regional academic societies, and specialized conferences on an assortment of subjects.

Associate Editor of the *Journal of Productivity Analysis*, 1986–1992 and 2003– .

Editor of the *Journal of Productivity Analysis*, 1992–2003.

Editor of book series, *Studies in Productivity and Efficiency*, Kluwer Academic Press, 1999– .

Referee (in recent years) for *American Economic Review*, *American Journal of Agricultural Economics*, Australian Research Council, *Bulletin of Economic Research*, Canadian Research Council, *Canadian Journal of Economics*, *Contemporary Economic Issues*, *Economic Journal*, *Econometrica*, *Economic Inquiry*, *Economic Record*, *European Economic Review*, *European Journal of Operational Research*, *Health Economics Letters*, *International Economic Review*, *Journal of Applied Econometrics*, *Journal of Applied Economics*, *Journal of Business and Economic Statistics*, *Journal*

of Development Economics, Journal of Economic Behavior and Organization, Journal of Economic Dynamics and Control, Journal of Economic Education, Journal of Economic Theory, Journal of Econometrics, Journal of Economics (Zeitschrift für Nationalökonomie), Journal of Human Resources, Journal of Macroeconomics, Journal of Political Economy, Journal of Productivity Analysis, Kluwer Academic Press, Management Science, National Science Foundation, Review of Economics and Statistics, Review of Economic Studies, Scandinavian Journal of Economics, Social Choice and Welfare, Southern Economic Journal, and University of Michigan Press.

Testified before Congressional committees, including, among others, the Joint Economic Committee, the Senate Banking Committee, and the House Banking Committee, 23 times.

More than 100 speeches and participations in panel discussions before national trade associations (e.g., the National Association of Wholesalers and Retailers and the U.S. Chamber of Commerce), press groups (e.g., the National Press Club), and professional groups (e.g., the Society of Government Economists).

Participation in about 25 television programs on inflation and related topics.

Consultant to Boeing Aircraft Corporation, the Bureau of Labor Statistics, the Central Intelligence Agency, the Council of Economic Advisors, Criterion Incorporated, the Electric Policy Research Institute, the Government Accounting Office, the State of Alaska, the State of Hawaii, the City of Honolulu, the Department of Housing and Urban Development, Management Analysis Center, the Office of Management and Budget, the Department of the Navy, Pacific Bell Telephone Company, the Stanford Research Institute, the Social Security Administration, Sperry Univac Corporation, and the Union Pacific Railroad.

Member, Economic Policy Study Group, Center for National Policy, Washington, D.C., 1981–92.